

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v328)**

1. Expand the following expression into standard form.

$$(9x - 8)(5x - 4)$$

2. Expand the following expression into standard form.

$$(5x - 4)^2$$

3. Expand the following expression into standard form.

$$(7x - 2)(7x + 2)$$

4. Solve the equation.

$$(7x + 5)(2x + 9) = 0$$

5. Solve the equation.

$$7x^2 - 15x + 7 = 4x^2 - 2x + 3$$

6. Factor the expression.

$$x^2 - 11x + 30$$

7. Factor the expression.

$$25x^2 - 9$$

8. Solve the equation with factoring by grouping.

$$10x^2 + 8x + 15x + 12 = 0$$